Federal-State Cooperative Snow Surveys and Water Supply Forecasts for WYOMING

Federal-state cooperative

As of Feb. 1, 1954

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF
FEB. 1, 1954

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office, listed below:

Meteorologist in Charge Weather Bureau Airport Station Box 517 Grand Junction, Colo.	.....Green River and tributaries
Meteorologist in Charge Weather Bureau Airport Station Box 1718 Boise, Idaho	.....Snake River and tributaries
Meteorologist in Charge Weather Bureau Airport Station Box 1338 Billings, Montana	.....Yellowstone River and tributaries
Climatologist Weather Bureau Office Box 1079 Denver, 1 Colo.	.....North Platte River and tributaries

State of Wyoming

FEDERAL-STATE COOPERATIVE SNOW SURVEYS

FOR

WYOMING WATER SUPPLY FORECASTS

Upper Missouri, Upper Columbia and Upper Colorado
River Basins

Report Prepared

by

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U. S. Department of Agriculture
Box 699, Casper, Wyoming

PRELIMINARY WATER SUPPLY OUTLOOK

FOR

WYOMING

February 1, 1954

The accumulation of water in the Wyoming snow pack varies considerably throughout the state. The February 1 snow survey network indicates close to the past three year normal on the Snake River Watershed, in Yellowstone Park, and on the east flank of the Wind River Range.

The snow cover on the north end of the Big Horns is considerably above this past three year average, but this percentage diminishes rapidly towards the southern end of these mountains.

Water supply prospects for southern Wyoming are poor. The snow pack in the North Platte Basin, the headwaters of the Laramie River and on Pole Mountain is considerably below the 1951-1953 normal.

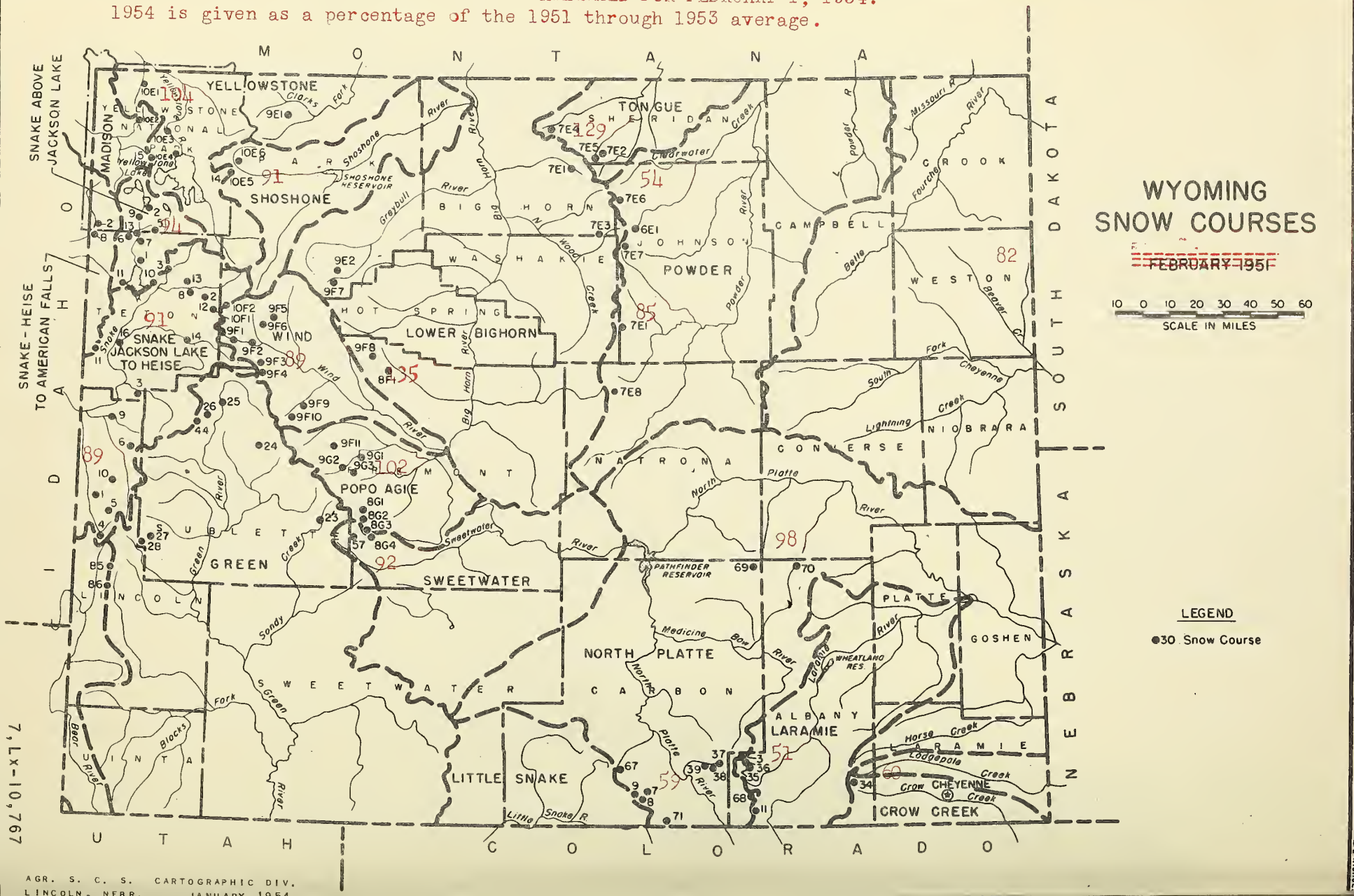
The soil throughout Wyoming entered the winter at 50 to 60 per cent of its normal moisture content. This soil moisture deficit must be replaced by a portion of the snow cover when snow melt occurs, thereby reducing, moderately, the runoff indicated by the snow surveys.

PRELIMINARY ANALYSIS of THE WYOMING WATERSHED

The following tabulation presents a comparative analysis of the Wyoming stream basins with (1) the average depth of the water content of the snow pack throughout each basin for February 1, 1954, (2) the three-year average of the 1953, 1952 and 1951 water contents of the same date and (3) the 1954 percentages of this average, and of 1953, 1952 and 1951.

Stream Basin	Number of Courses	Basin Water Content 1954	Ave. 1951 1952 1953	1954 Percentage of Ave.	1953	1952	1951
Snake River above Jackson Lake	11	16.8	17.9	94	97	86	100
Jackson Lake to Alpine	10	12.4	13.7	91	99	85	100
Salt River	5	8.0	9.0	89	96	74	101
Upper Yellowstone in Yellowstone Park	8	9.9	9.5	104	129	81	114
Shoshone River	2	8.9	9.8	91	123	77	86
Wind River	14	8.3	9.3	89	105	93	75
Popo Agie	6	8.3	8.2	102	126	79	112
Owl Cr. on the Big Horn River	2	5.9	4.4	135	139	157	115
Wood River on the Greybull River	1	4.9	--	--	196	--	--
Tongue River	3	7.2	5.6	129	161	134	105
Clear Creek on the Powder River	1	1.4	2.6	54	88	56	38
Crazy Woman Creek on the Powder River	1	4.4	5.2	85	116	65	88
North Platte above Seminoe Res.	14	6.9	11.7	59	88	43	62
Sweetwater River	2	10.2	11.0	92	119	74	94
Northern Laramie Mts.	2	3.2	3.3	98	75	88	176
Laramie River	7	5.0	9.8	51	71	44	45
Pole Mountain	1	1.8	3.0	60	75	43	78
Cheyenne River	1	4.0	4.9	82	82	56	154

A GEOGRAPHIC ANALYSIS OF THE WYOMING WATERSHED FOR FEBRUARY 1, 1954.
1954 is given as a percentage of the 1951 through 1953 average.



STATUS OF RESERVOIR STORAGE, FEBRUARY 1, 1954

BASIN and STREAM	RESERVOIR	USEABLE CAPACITY 1000s AF	ACTIVE STORAGE - 1000s ACRE FEET 1954	1953	1952	1951	10-Yr.Avg 1942-51
Snake River	Jackson	847	342	347	689	658	482
North Platte River	Minatare	58	20	21	28	27	---
North Platte River	Seminoe	957	197	620	681	539	414
North Platte River	Kortes	3	3	3	3	3	3
North Platte River	Pathfinder	1,011	809	739	699	807	398
North Platte River	Alcova	24	1	0	0	10	1
North Platte River	Guernsey	40	37	42	20	30	36
North Platte River	Lake Alice	14	0	0	0	0	0
Laramie River	Wheatland	95	7	24	52	36	---
Cheyenne River	Belle Fourche	185	97	44	72	75	---
Cheyenne River	Angostura	92	30	43	120	27	---
Shoshone River	Buffalo Bill	440	16	158	266	206	304
Wind River	Boysen	758	34	580	92	---	---
Wind River	Pilot Butte	32	9	9	6	6	12
Wind River	Bull Lake	152	85	67	75	99	70

Discrepancies due to sediment accumulation.

TABLE [illegible] - [illegible] 1, 1954

Stream and Station	Reservoir	50 Year Discharge 1000s of	Entire Stream - 1000s Acre Feet 1953	1952	1951	1950	10-Year Avg 1941-50
[illegible] River	[illegible]	847	702	387	587	726	582
North Platte River	Alcantara	58	20	21	34	27	---
North Platte River	Pathfinder	957	127	620	583	230	443
North Platte River	Seminoe	3	3	3	3	3	3
North Platte River	Kortes	1,011	400	739	597	607	368
North Platte River	Alcova	24	1	0	0	10	1
North Platte River	Guernsey	40	37	12	20	37	30
North Platte River	Lake Alice	14	0	0	0	0	0
[illegible] River	Greenland	39	7	24	52	36	---
Cheyenne River	Belle Fourche	145	47	44	72	75	---
Cheyenne River	Angostura	40	20	43	120	27	---
Shoshone River	Buffalo Bill	444	16	159	266	206	[illegible]
Bad River	Oahe	758	34	505	92	---	---
Bad River	Fort Pierre	32	9	9	6	6	7
Bad River	Wall Lake	132	85	47	74	99	7

Discrepancies due to rounding accumulation.

WYOMING SNOW SURVEYS, FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content In. 1953	1952	Ave.	Years of Record
SNAKE RIVER									
Above Jackson Lake									
Thumb Divide	Wyoming	7900	1/31	67	17.3	14.8	21.6	17.7	3
Astor Creek	Wyoming	7700	1/31	81	23.4	24.5	29.9	26.3	3
Lewis Lake Divide	Wyoming	7900	1/31	106	31.9	31.2	36.2	33.2	3
Coulter Creek	Wyoming	7600	1/27	59	16.8	17.5	18.2	17.2	3
Glade Creek	Wyoming	7200	2/1	54	15.3	16.8	18.1	16.7	3
Snake River Sta.	Wyoming	6780	1/31	51	14.4	14.7	16.4	15.1	3
Huckleberry Divide	Wyoming	7300	1/31	48	12.6	15.1	16.7	14.9	3
Arizona	Wyoming	6850	1/31	46	12.9	13.8	15.8	13.8	3
Base Camp	Wyoming	6900	2/2	52	14.8	14.8	15.3	14.8	3
Moran Bay	Wyoming	6800	2/1	51	14.5	16.7	16.4	16.3	3
Moran	Wyoming	6800	2/1	37	10.4	10.6	10.4	10.3	3
Jackson Lake to Alpine									
Togwotee Pass	Wyoming	9600	2/2	70	21.1	18.7	20.8	18.7	30
Four Mile Meadows	Wyoming	7770	2/2	37	9.6	8.8	10.4	8.2	30
Blackrock	Wyoming	8600	2/2	55	15.7	14.2	16.0	12.4	30
Turpin Meadows	Wyoming	6930	2/2	32	7.9	8.4	8.5	6.7	30
Base Camp	Wyoming	6900	2/2	52	14.8	14.8	15.3	14.8	3
Moran	Wyoming	6800	2/1	37	10.4	10.6	10.4	10.3	3
Snow King	Wyoming	7600	2/1	36	7.1	--	9.5	--	4
Bryan Flat	Wyoming	6250	1/27	31	7.7	8.0	10.4	6.7	18
Teton Pass	Wyoming	8500	1/28	79	20.7	24.9	31.2	25.0	9
Greys Boundary	Wyoming	5800	2/1	30	9.0	9.9	13.2	7.5	18

WYOMING SNOW SURVEYS, FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
Salt River									
Salt River Summit	Wyoming	7900	2/1	39	13.4	10.8	13.1	12.1	5
C.C.C. Camp	Wyoming	7500	2/1	30	7.9	8.8	11.2	7.6	18
Afton R.S.	Wyoming	6200	2/2	13	3.3	3.4	6.1	3.9	18
Grover Park Divide	Wyoming	7500	2/2	25	6.6	8.8	10.7	7.7	18
Greys Boundary	Wyoming	5800	2/1	30	9.0	9.9	13.2	7.5	18
UPPER YELLOWSTONE									
In Yellowstone Park									
Sylvan Pass — OK Yell Ash	Wyoming	7100	2/1	40	9.5	7.8	12.2	10.6	10
Thumb Divide — OK	Wyoming	7900	1/31	67	17.3	14.8	21.6	17.7	3
Lake Camp	Wyoming	7850	2/1	31	7.4	5.7	9.0	6.3	8
Canyon	Wyoming	7750	2/1	43	11.5	8.9	10.6	10.3	8
Norris Basin — Madison	Wyoming	7500	2/1	30	8.9	6.3	10.6	7.7	3
Lupine Creek	Wyoming	7300	2/1	33	7.8	5.3	11.7	6.3	12
Cooke City	Montana	7400	2/1	28	8.2	5.7	7.3	5.7	7
West Yellowstone — Madison	Montana	6700	2/3	32	8.3	6.8	13.9	7.7	16
Madison River									
LOWER YELLOWSTONE									
Shoshone River									
Sylvan Pass	Wyoming	7100	2/1	40	9.5	7.8	12.2	10.6	10
East Entrance	Wyoming	7000	1/31	35	8.3	6.7	11.0	9.3	5

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DRAINAGE BASIN and SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	1954 Snow Depth (In.)	1954 Water Content (In.)	Past Record Water Content (In.) 1953	1952	Avg.	Years of Record
Wind River									
Togwotee Pass	Wyoming	9600	2/2	70	21.1	18.7	20.8	18.7	30
Brooks Lake	Wyoming	9200	1/25	61	15.3	15.6	19.4	16.9	13
Sheridan R.S.	Wyoming	7500	1/26	27	5.1	6.5	6.0	5.8	12
DuNoir	Wyoming	8750	1/26	28	5.5	5.2	5.8	6.5	12
Geyser Creek	Wyoming	8500	1/27	27	5.5	4.9	5.3	6.4	5
Little Warm	Wyoming	9500	1/27	49	11.1	10.3	12.4	15.2	4
T Cross Ranch	Wyoming	8000	1/29	32	6.2	6.3	3.4	5.2	13
Burroughs Creek	Wyoming	8800	1/28	52	11.0	11.5	8.7	12.9	5
Dinwoody	Wyoming	10000	2/3	30	6.5	7.1	10.1	10.3	5
Dry Creek	Wyoming	9500	2/3	18	3.5	3.7	4.1	5.3	5
St. Lawrence R.S.	Wyoming	9000	1/31	19	3.7	4.1	5.4	5.0	10
Hobbs Park	Wyoming	10000	2/2	45	12.3	8.9	15.8	13.8	5
Mosquito R.S.	Wyoming	9500	2/2	24	5.3	4.8	4.7	6.5	10
Trout Creek	Wyoming	8400	2/2	19	4.2	3.6	3.2	3.8	5
Popo Agie River									
Hobbs Park	Wyoming	10000	2/2	45	12.3	8.9	15.8	13.8	5
Mosquito R.S.	Wyoming	9500	2/2	24	5.3	4.8	4.7	6.5	10
Sawmill Glade	Wyoming	8500	2/1	21	4.7	4.2	5.7	5.0	12
Blue Ridge	Wyoming	9500	2/1	36	8.8	6.4	12.1	7.9	12
South Pass	Wyoming	9000	2/1	41	10.6	8.8	14.3	9.6	12
Owl Creek on the Big Horn River									
Beavers Mill	Wyoming	8900	1/29	21	6.4	5.3	3.2	5.4	5
Owl Creek	Wyoming	8700	1/27	17	5.4	3.2	4.3	4.1	5

Mulligan Park? ask Ash

Grannier Mead

WYOMING SNOW SURVEYS, FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	1954 Snow Depth (In.)	1954 Water Content (In.)	Past Record Water Content (In.) 1953	1952	Avg.	Years of Record
Greybull River									
Wood River	Wyoming	8000	2/2	16	4.9	2.5	--	--	1
Tongue River									
Burgess R.S.	Wyoming	7900	2/2	37	13.4	8.1	9.0	10.5	3
Big Goose	Wyoming	7700	2/1	10	1.9	2.0	2.6	2.4	3
Dome Lake	Wyoming	8800	2/1	25	6.4	3.4	4.6	3.7	4
Clear Creek on the Powder River									
Soldier Park	Wyoming	8700	2/1	13	1.4	1.6	2.5	2.6	3
Crazy Women Creek on the Powder River									
North Powder	Wyoming	8500	2/1	21	4.4	3.8	6.8	5.2	3
NORTH PLATTE									
North Platte River above Seminoe Reservoir									
Cameron Pass	Colorado	10300	2/1	33	8.9	8.5	18.5	12.2	15
Park View	Colorado	9200	1/31	21	3.8	5.3	11.5	5.9	16
Columbine Lodge	Colorado	9300	1/31	36	8.9	15.3	23.2	14.4	18
Willow Creek Pass	Colorado	9500	1/31	25	5.2	6.1	16.7	7.5	14
North Gate	Colorado	8500	1/31	14	2.0	2.5	6.7	4.0	4
Old Battle	Wyoming	9800	1/28	48	12.5	13.7	30.5	18.8	16
Webber Spring	Wyoming	9000	1/28	32	7.8	8.2	20.2	10.6	16
Bottle Creek	Wyoming	8200	1/28	29	6.9	6.6	16.1	8.2	16
Spring Creek	Wyoming	9000	1/29	24	5.6	--	16.0	12.7	3
Fox Park	Wyoming	9200	1/28	10	1.7	4.4	6.0	7.6	17

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North Platte River above Seminoe Reservoir (Cont'd.)									
Albany	Wyoming	9400	1/30	28	6.0	8.0	12.3	10.4	5
North French Creek	Wyoming	10200	2/1	48	14.8	12.2	23.5	16.4	16
North Barrett Creek	Wyoming	9400	2/1	34	8.7	9.0	14.9	11.6	16
Ryan Park	Wyoming	8400	2/1	20	4.4	4.2	8.9	6.6	16
Sweetwater River									
South Pass	Wyoming	9000	2/1	41	10.6	8.8	14.3	9.6	12
Grannier Meadows	Wyoming	8500	2/1	40	9.7	8.2	13.0	9.4	12
North Laramie Mountains									
Box Elder	Wyoming	9000	1/24	18	3.1	4.1	2.9	2.6	4
LaBonte	Wyoming	8450	1/27	16	3.4	4.6	4.5	4.7	5
Laramie River									
Deadman Hill	Colorado	10200	2/1	25	6.1	5.4	--	7.1	10
Roach	Colorado	9800	2/1	38	9.5	--	14.0	10.7	13
Pole Mountain	Wyoming	8700	1/29	8	1.8	2.4	4.2	2.9	17
Fox Park	Wyoming	9200	1/28	10	1.7	4.4	6.0	7.6	17
Albany	Wyoming	9400	1/30	28	6.0	8.0	12.3	10.4	5
Brooklyn Lake	Wyoming	10200	2/1	35	8.6	12.8	20.7	15.0	16
Hairpin Turn	Wyoming	9500	2/1	19	3.7	6.6	11.2	7.1	16
Libby Lodge	Wyoming	8700	2/1	17	3.6	5.7	11.4	6.2	16

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DRAINAGE BASIN and SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	1954 Snow Depth (In.)	1954 Water Content (In.)	Past Record Water Content (In.) 1953	1952	Avg.	Years of Record
POLE MOUNTAIN	Wyoming	8700	1/29	8	1.8	2.4	4.2	2.9	17
CHEYENNE RIVER									
Upper Spearfish	So. Dak.	6500	1/28	19	4.0	4.9	7.1	4.5	10

INDEX TO WYOMING SNOW COURSES

Name	Wyoming Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By[b]
MISSOURI RIVER DRAINAGE								
YELLOWSTONE								
Canyon	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	4
Lake Camp	10E4	7850	44°34'		110°24'	1937	1,2,3,4,5	4
Lodgepole	9E1	8200	32	56N	106W	1940	4,5	1
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2
WIND RIVER								
Brooks Lake #3	10F2	9200	23	44N	110W	1939	2,3,4,5	4
Burroughs Creek	9F6	8800	15	43N	107W	1948	2,3,4,5	4
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	4
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	4
DuNoir	9F2	8750	27	42N	108W	1940	2,3,4,5	4
Geyser Creek	9F3	8500	12	41N	108W	1948	2,3,4,5	4
Little Warm	9F4	9500	24	41N	108W	1948	2,3,4,5	4
Sheridan R.S.	9F1	7500	3	42N	109W	1939	2,3,4,5	1
T-Cross Ranch	9F5	8000	1	43N	107W	1940	2,3,4,5	4
Togwotee Pass	10F1	9600	29	44N	110W	1936	2,3,4	5
POPO AGIE RIVER								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Hobbs Park	9G2	10000	22	2S	3W	1948	2,3,4,5	4
Mosquito Park R.S.	9G3	9500	23	2S	3W	1940	2,3,4,5	4
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
St. Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	4
Trout Creek	9G1	8400	5	2S	2W	1948	2,3,4,5	4
BIG HORN RIVER								
Beavers Mill	9F8	8900	6	43N	102W	1948	2,3,4,5	4
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	4
Tensleep R.S.	7E3	8300	30	49N	86W	1935	4,5	1
Timber Creek	9E2	8800	25	47N	103W	1948	4,5	1
Ranger Creek	7E1	8800	32	53N	88W	1935	4,5	1
Wood River	9F7	8000	28	46N	103W	1939	2,3,4,5	1
MADISON RIVER								
Norris Basin	10E2	7500	44°44'		110°42'	1936	3,4	2,7
Thumb Divide	15	7900	44°22'		110°35'	1946	2,3,4,5	5
SHOSHONE RIVER								
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
TONGUE RIVER								
Burgess R.S.	7E4	7900	36	56N	89W	1950	3,4,5	4
Dome Lake	7E5	8800	11	53N	87W	1950	3,4,5	4
Big Goose	7E2	7700	4	53N	86W	1935	4,5	1
POWDER RIVER								
Red Fork	7F1	7000	18	43N	85W	1936	4,5	4
Sour Dough	6E1	8500	17	49N	84W	1936	4,5	1
Soldier Park	7E6	8700	36	51N	85W	1950	3,4,5	4
Muddy Pass	7E7	9700	11	48N	85W	1950	3,4,5	4
North Powder	7E8	8500	5	47N	85W	1951	3,4,5	4
SWEETWATER								
Grannier Meadows	8G4	9000	19	30N	100W	1937	2,3,4,5	4,6
Larsen Creek	57	9000	12	30N	103W	1949	2,3,4,5	4
NORTH PLATTE								
Bottle Creek	7	8200	24	14N	85W	1936	2,3,4,5	1
Webber Spring	8	9000	27	14N	85W	1936	2,3,4,5	1
Old Battle	9	9800	29	14N	85W	1936	2,3,4,5	1
North French Creek	37	10200	27	16N	80W	1938	2,3,4,5	1
North Barrett Creek #2	38	9400	30	16N	80W	1936	2,3,4,5	1
Ryan Park #2	39	8400	34	16N	81W	1936	2,3,4,5	1
Spring Creek	67	9000	32	15N	85W	1949	2,3,4,5	4
Albany	68	9400	18	14N	78W	1949	2,3,4,5	4
LaBonte	69	8450	11	27N	74W	1949	2,3,4,5	4
Boxelder	70	9000	31	30N	75W	1950	2,3,4,5	4
Pearl	71	8700	8	12N	82W	1951	2,3,4,5	4
MISSOURI RIVER DRAINAGE (continued)								
LARAMIE RIVER								
Brooklyn Lake	3	10200	11	16N	79W	1936	2,3,4,5	1
Fox Park	11	9200	21	13N	78W	1936	2,3,4,5	1
Libby Lodge #2	35	8700	29	16N	78W	1936	2,3,4,5	1
Hairpin Turn #2	36	9500	24	16N	79W	1936	2,3,4,5	1
CROW CREEK								
Pole Mountain #2	34	8700	35	15N	72W	1936	2,3,4,5	1
COLORADO RIVER DRAINAGE								
GREEN RIVER								
Dutch Joe Ranger Sta.	23	8700	32	37N	104W	1936	4,5	1
Mulligan Park	24	8900	17	35N	108W	1936	3,4,5	1
Kendall Ranger Station	25	7900	23	38N	110W	1936	3,4,5	1
Loomie Park	26	8500	14	37N	111W	1936	3,4,5	1
Snyder Basin Ranger Sta.	27	8040	15	29N	114W	1937	4,5	1
Piney-LaBarge	28	8820	19	29N	114W	1937	4,5	1
East Rim Divide	44	7950	32	37N	111W	1936	3,4	1
COLUMBIA RIVER DRAINAGE								
SNAKE RIVER BASIN								
Above Jackson Lake								
Arizona	1	6850	3	46N	113W	1919	2,3,4,5	5
Aster Creek	2	7700	44°17'		110°37'	1919	2,3,4,5	5
Base Camp	3	6900	20	46N	113W	1947	2,3,4,5	5
Coulter Creek	5	7600	44°09'		110°33'	1919	2,3,4,5	2
Glade Creek	6	7200	44°08'		110°44'	1919	2,3,4,5	5
Huckleberry Divide	7	7300	32	48N	115W	1919	2,3,4,5	5
Lewis Lake Divide	9	7900	44°13'		110°40'	1919	2,3,4,5	5
Moran	10	6800	8&17	45N	114W	1919	2,3,4,5	5
Moran Bay	11	6800	14	45N	116W	1919	2,3,4,5	5
Snake River Station	13	6780	44°08'		110°40'	1919	2,3,4,5	5
Jackson Lake to Heise								
Afton Ranger Station	1	6200	30	32N	118W	1936	1,2,3,4,5	1
Blackrock	2	8600	4	44N	111W	1936	2,4	5
Bryan Flat	3	6250	9	38N	115W	1936	1,2,3,4,5	1
CCC Camp	4	7500	9	29N	118W	1936	1,2,3,4,5	1
Cottonwood Lake	5	7500	25	31N	118W	1936	3,4	1
Deadman Ranch	6	6534	28	35N	116W	1936	1,2,3,4,5	4
Four Mile Meadows	8	7770	35	45N	112W	1936	2,4	5
Oreys Boundary	9	5800	33	37N	118W	1936	1,2,3,4,5	1
Grover Park Divide	10	7500	27	33N	118W	1936	1,2,3,4,5	1
Teton Pass #2	11	8500	24	41N	118W	1936	1,2,3,4	1
Togwotee Pass	12	9600	29	44N	110W	1936	2,3,4	5
Turpin Meadows	13	6930	14	45N	112W	1936	2,4	5
Yellowjacket	14	7675	33	42N	112W	1936	3,4,5	1
Snow King Mountain	16	7600	4	40N	117W	1949	Semi.Mo.	1
Heise to American Falls								
Bechler Ranger Station	2	6400	44°09'		111°03'	1936	1,2,3,4,5	2
Grassy Lake	8	7265	6	48N	117W	1940	1,2,3,4,5	5
BEAR RIVER								
Big Park	85	8700	7	27N	117W	1951	3,4	4
Kelly Ranger Station	86	8200	13	26N	118W	1951	3,4	4

a. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey, as follows:

1. U. S. Forest Service
2. U. S. National Park Service
3. U. S. Indian Service
4. Soil Conservation Service
5. U. S. Bureau of Reclamation
6. State Engineer of Wyoming
7. Montana Experiment Station

INDEX TO SOUTH DAKOTA SNOW COURSES

Name	South Dakota Number	Elev.	Location Sec.	Twp.	Range	Record Began	Measuring Dates[a]	Measured By:[b]
CHEYENNE RIVER								
Upper Spearfish	1	6500	21	3N	1E	1944	2,3,4	1
Upper Castle	2	6800	24	2N	1E	1944	2,3,4	1
Deerfield	3	6010	23	1N	2E	1944	2,3,4	2

a. Numerals 2,3,4 refer to February 1, March 1, and April 1 respectively.

b. Numerals refer to Agency that secures the snow survey as follows:
1. U. S. Forest Service
2. U. S. Soil Conservation Service

AGR. S. C. S. CARTOGRAPHIC DIV.
LINCOLN, NEBR. JANUARY 1954

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The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

U. S. Department of Agriculture
Forest Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of the Interior
Bureau of Reclamation
National Park Service
Geological Survey

PRIVATE

Wheatland Irrigation District

Federal - State - Private

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"